A

TREATISE

Concerning the

MALIGNANT FEVER

IN

BARBADOS,

ANDTHE

NEIGHBOURING ISLANDS:

WITH

An Account of the Shasons there, from the Year 1734 to 1738.

IN A

LETTER to Dr. MEAD.

By HENRY WARREN, M.D.

LONDON,
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Doctor M E A D,

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count of new good Intentions, meet with

Pardon. Such as it is, Lefthenist in

HE Character You universally bear, of being as much distinguished by your Humanity and Benevolence, as You are by your Learning and Skill in our Profession, bas induced me to take the Liberty of sending You the following Short Treatise, and of desiring your Perusal of it. I have not the Vanity to think, that such a Performance as This can stand the Test of your accurate Judgment: But as it is founded on Observation and the Experience of many Years Practice, and consequently may be of Service in the Cure of a MALIGNANT FEVER, the

DEDICATION.

the Nature of which (though it has now for several Years raged in This and the Neighbouring Islands) has not yet been rightly understood; it statter myself, that, though it may not perhaps in every Particular merit your Approbation, yet it will, upon the Account of my good Intentions, meet with Pardon. Such as it is, I submit it intirely to your Censure, that it may, if you shall think it will be useful to the Public, be committed to the Press; but, if you shall judge otherwise, to the Flames. I am, with true Respect,

,A I & Sendary You

Your most Obedient, were

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And most Humble Servant,

BARBADOS, May 29, 1739.

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HENRY WARREN.



A

TREATISE

OF THE

MALIGNANT FEVER

IN

BARBADOS, &c.



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T has been often very justly observed, that we have no Malignant Distempers truly Indigenous, or Natives of this Island; and that such have always been

brought in among us from some other infected Places: However, it is certain, that this, and the other Sugar Islands, have several times been visited by these unwelcome Guests, at uncertain Intervals and no stated Periods of Time.

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'Tis

"Tis not my present Purpose to treat of those more common contagious Diseases, as Small-Pox, Mealles, Scarlet-Fever, and the like; but I thall confine myfelf wholly to the present reigning MALIGNANT FEVER, which has hitherto unhappily been to little understood, and no just appropriate Method of Care yet found out for it; having been most commonly mistaken for a Bilious Fever, and that specious Name espoused and affixed to it by some Persons of Judgment and Reputation; particularly in a Treatife published a few Years ago, concerning the Distempers of Barbados; which, I fear, has missed many unwary Practitioners into a false Notion of the Distemper, and so into a wrong Method of Practice, full of Danger and pregnant of Errors: For in that Difcourse, whoever will be at the pains of obferving, will foon perceive, that the Author (being perhaps deceived by fome Phænomena that are common to all Acute Fevers) has blended together two most different Maladies, I mean the Malignant and the Ardent Fever of Barbadas, in one and the fame Description, without any Discrimination of the Symptoms that are proper and congenial to each, and plainly diffinguish one from the other, comprehending or rather confounding both under the general Title of Febris Ardens Biliofa; and I am perfuaded, that where he focceded in his boafted boasted Method of Cure, the Fever has frequently been of the ordinary Inflammatory Class. A long and sollicitous Attention to the Rise, Nature, Symptoms, Progress, and Issue of this satal Disease, has (I stater mysself) furnished me with such Lights and Observations, as may be of some Importance and Service to my Fellow-subjects; and I have, from my own Experience, just Reason to believe, that a conformable Practice will seldom sail of being attended with Success, provided the Physician be called very early, and no Administrations offered before he comes, particularly, Bleeding, Blissering, Vamiting, Purging, or Anodynes,

I am of opinion, that this Fever is truly of the Peftilential Kind, and ought properly to be called by no other Denomination. It refembles, very nearly (except that the Condition of the Blood is not the fame) the Restilential Fever described by Dr. Sydenbam, which continued for some time after the Plague of London; and it is attended with many Appearances, peculiar to the Plague itself; the Plague-boil and the Rapidity and Ferocity of the Symptoms only excepted; to that it feems to differ from it only in Degree, but not in Species. The French call it sometimes, La Maladie de Siam, from a Country of that Name in the East-Indies, where it is a constant inhabitant , fomotimes they call it, Le Fieure Surgrige A 2 MateMatelatte, abecause Sea-faring People and New-comers are chiefly obnoxious to it; and probably it is the very same Fever, which the Spaniands call Vomite Preto, or the Black Vomiting, from one of its most dire Symptoms and mogen at younged

It has made two Visits to this Island, within the Space of these last fixteen Years: The first was somewhat above fifteen Years ago; and it was, at that Time, generally thought to be introduced among us from Martinique, in the Lynn Man of War, and committed much Ravage here for two Years or more.

The second Appearance it made was in the Year 1733, towards the latter End, or about the Christmas Holy-Days; fince which Time we have never been totally free from it, tho it has sometimes seemed to lie dormant for a Month or two together. This last Invasion was likewise from Martinique, from whence it was brought to us by an English Surgeon, who died of it here in a few Days after his Arrival.

I shall now endeavour to give some Acount of its Origine: and, as I am conscious to myself that nothing sways me but an honest Candor and a singere Love of Truth, I am not at all afraid of Censure, in pretending to derive it from a Country very remote, the what I advance may possibly be new to many, and consequently may occasion Surprize

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Surprize in those, who have hitherto been fixed in a Belief that it was a more Native of America. I apprehend this Distemper to be really of an Affactic Extract, as far as I am able to discover upon the most strict Enquiry. To support this Opinion, I shall offer the following Reasons and the state of th

some small Time before Mr Nellen (for that is the Name of the English Surgeon above mentioned) lest Martinique, this Rever broke out there with very great Malignity, and soon swept away a Multitude of People, especially New-comers, and Scafaring Persons, such as had purer Blood, and probably less adust than that of the Natives; or of those, whose Constitutions had been for many Years sitted and habituated to the Climate.

Time, to Port St. Pierre from Marfeilles, on board of which were feveral Bales of Levant Goods, which were taken in by some Vessels of the Fleet in the Road of Marfeilles, for the American Market, out of a French Ship that had just arrived from St. Ifean Dl Acre (probably the Prolemais of the Ancients) where the French drivers considerable Trade, the the Place is selden free from Pestilential Insections. Upon opening these Bales at Port St. Pierre, this Distemper immediately shewed itself,

many of the People employed were instantly seized, some died almost suddenly, others in a few Days, and forme linger'd longer; and the Contagion still spreading, made great Havock at the Beginning. This Account I had from the Mouth of the faid Nelson a few Days before he died. As this raifed my Curiofity very much, I was very follicitous in endeavouring to get further and more certain Intelligence; and within five or fix Months afterwards, the fame Detail was confirmed to me by a Gentleman of Understanding and Veracity, who at that Time relided at Mantinique; with these further Circumstances, that the Distemper for some Time had abated there so considerably, that it was thought entirely to have left the Island, when suddenly another Marfeilles :Veffel arriving, brought it back a fecond Time, with more Rage and Violence than before. It is not improbable, that the fame Fever, on one of very near Refemblance and Affinity, might first have been carried among the American Spaniards (among whom it is now Endemic) in somewhat a like Mannet; and that possibly some peculiar Qualities of the Air and Chimate might have follered and maintained it there ever fince. For I never learned that the Indians, or old Natives, were ever troubled with it, until their new Oppressors came amongst them. And I am apt to believe,

that the Nearness of Jamaica to those Parts, with which there is a constant Trade and Correspondence, has been not a little injurious to the Health of its Inhabitants, besides a bad Air and Vapours from the Mountains.

I am not ignorant, that immense Tracks of uncultivated Lands, abounding in Woods, Lakes and Marshes, about which a corrupt stagnating Air perpetually lies brooding; or vast Mountains, whose Bowels are replete with divers Mineral Substances, may produce often Epidemical Malignant Diseases: but it feems to me very evident, that this is no way applicable to the present Case, nor can this Fever I am treating of, be reasonably attributed to any such Causes. For, First, the Air of Barbados is in general remarkably fresh and pure, and probably more falubrious than that of any other Sugar Colony. Secondly, The Land here, in respect of the other Islands, is the best cultivated, and entirely free from Lakes or Marshes; it lies so low as not to be feen by Mariners at any confiderable Distance at Sea, and yet is agreeably diverfified with Rifings and Hills, on the very Tops of which the best Canes grow; and, unfortunately for the People, there are now no Woods at all, or what remains does scarce suffice for Fuel: Besides, its Situation is to the Windward of all others. molpher.

and at a greater distance from any Part of the Northern or Southern Continents of A. merica; and it is well known, that many of the Inhabitants live to very advanced Ages. Thirdly, Neither the Alteration of the Weather or Winds, nor the different Seafons of the Year, have ever, of themfelves, been able to produce this contagious Difease among us: Many Years (I may fasely fay feven, or eight, or more, fucceffively) have, to my certain Knowledge, passed over, when the fultry Heats and long intolerable Droughts of some, the almost incessant Rains of others, or the tempestuous Weather of many, and that from uncommon Points of the Compais too, must furely, in some degree or other, have given Rise to fuch an Epidemical Malignity, if it could poffibly be derived from such Causes; and yet no Footsteps of this Fever did appear all that Time; we were then infliciently healthy, no other Diftempers being felt but what all Parts of Europe are always equally subject to. Fourtbly, I have often obferved, and I think with great Certainty, that, even at the Time that this Malignity. is actually harboured among us, a Continuation of dry and fultry Weather has been fo far from giving any Aggravation to it, that it has rather seemed to repres it, and make it lie more full'd and dormant, until the teturning Rains, and a moist Atmosphere, bolt O

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mosphere had set it at liberty to exert its

Rage anew.

The Reader may judge as he thinks fit of this Account of the Origin of this Difeafe. I am fatisfied that it was introduced amongst us, these two last Times, in the Manner now described; and that it is not by any means the natural Growth of this Healthy Island, but truly a foreign Intruder, let the first Causes of it be what or from whence they may. And I think the Violence and Horror of the Symptoms, as well as its contagious Malignity and Mortality, do fufficiently demonstrate its Nature to be Pestilential, which is the chief Mat-

ter I wanted to prove.

Upon the first Insult of this Distemper, the Symptoms are, for the most part, as follow; viz. a sudden Paintness, and frequently a Giddiness too, then a Chilliness and Horror, which are immediately suc-ceeded by an Ardent Pever, with severe darting Pains in the Head and Small of the Back; the Face intenfely flush'd, Redness and Borning in the Eyes, high-coloured crude Urine, the Pulfe in some quick, high, and throbbing; in others, quick, low, and vaciliating; the Skin formetimes (tho' rarely) parched and dry, but oftner, and in-deed generally, most and disposed for Sweat , early Deliria, great Tightness, Anziety, and Oppression about the Pracording Diffi-

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Difficulty of Respiration, Sickness of the Stomach with Reachings to womits of he Blood now drawn is ifforight and ravified. with evident Marks of Colliquation fland without the least Sign of Size, that I could ever once observe; the Insula or Crassamentum (even when cool) upon moving it, undulates like Water in a Bason, and has fometimes blackish Spots here and there upon its Surface, with much yellowish Serum, upon which it extends itself wide and thin: Soon after, all these Symptoms are aggravated with almost perpetual Reaching and Vomiting, great Inquietude, incessant Jactations, no Ease in any Posture, fcarce any Rest or Sleep, or that at best out this flatter guidlerfarnu bna bedruflib.

This is the first Stage of the Disease, which I call the Colliquative State: It lasts sometimes only one Day, and sometimes two or three, or even more, according to the Degree of Insection, Constitution of the Patient, or the different Manner of Treatment; but the sooner it is succeeded by the next Stage, the more unhappy Situation the sick Personnis in a more unhappy.

Now comes on an universal Yellowness all over the Surface of the Body, generally first discoverable in the Coats of the Eyes, with dark or blackish Circles round their Orbits, the Fever abates, the Pulse slags, the Skin all over moist and clammy often with

with ha avery ifen fible Chillines, vandifthe Wife of a dark, deep crocedns Hub a The Tongue anathis Time rappearsweenerally moistenound icleaner than Vin the viortner Stage, the Tip and Edges of it, as well as the Lips and Gums, of a more florid Red than usual, as if Blood was ready to fart through them. Now frequently the Patient has a Heaviness to doze, and grows comatofe, shewing Signs of much Confusion and want of Memory, whenever awakened from his unavailing Slumbers. However, it often happens about this Time, that (without a Coma) he shall receive some comfortable Reft and Sleep, which is often miftaken for a joyful Prospect of Recovery but this flattering Scene is of very fhort Continuance. This Stage lasts fometimes only for the Space of some Hours, though fometimes it extends itself to the length of a Day or two, and sometimes a good deal the Degree of Infeylarar visuality and

personnichi I chuse to call by the plain Name of the Yellow States for the Words Bilious, or Iteritious, I take to be very improper and inadequate Terms. Whis Yellowness, y bam persuadeth, chiefly arises from a more compleat Colliquation of Diff solution of the red Globules of the Blood into a yellowish Serum, which will naturally soon give that Tincture to the whole this

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no helden relden and in office ables on human Bodies voon after the Bites nof foma poisonous serpents or other readmous Animals; and in such Case it cannot with any reason be supposed to proceed from a Suffusion of Bile, but rather from la Colliquation, and perhaps a gangrenous Diathesis of the sanguineous Mass, occasioned by the Force of the Deleterious Venom that had been infused into it. What is observed every Day in all common Bruises of the Flesh, may serve somewhat farther to illustrate this Matter; for here when the Texture of the extravalated Blood begins to loosen and dissolve into a liquid serous Consistence (in order to acquire a proper Fluor and Permeability for passing on and being received again into the Mass of circulating Juices) a very visible Yellowness does always appear in and about, the Part; but this foon goes off again, when the Matter is fully absorbed back into the Vessels, where it commits no Hurt but is readily overcome by the Force of Nature as the Quantity of fuch diffolved Blood is small, and at the same time very innexious. I do not however deny, but that through a great Propensity and Straining to vomit, fome Quantity of Bile may be thrown into the Blood; but then I must abserve, that the Yellowness of this Distemper Lam speaking of very frequently shews sitfalf, when vifloin

when there has been no Voirnting or Reach. ing and all dor Tearce any Tentible Sickhels of the Stomuch of the Truth of Which I can appeal to many ! I must own likewife that the Bile, both that reposited in the through the Porus Biliarius, is the most alcalescent or putrescent Humour in the human Body, and may cafily, if by any means grown more rancid, and fo thrown largely into the Blood, give violent Diffurbance to the Animal Spirits and whole Occonomy, and even occasion dangerous putrid Pevers; but this I cannot believe to be the prefent Cafe: For then how comes it that Strangers and New-comers, whole Blood is pureft and least impregnated with exalted Oils and Salts, should be most liable to this Discase? How comes it that the Natives of the Torrid Zone, whose Juices we may reasonably suppose to be much less obnoxious to it, if the malignant Symptoms proceeded merely from a Suffufion of Bile? How comes it that all Sorts and Conditions of the People, who live in the fame Illand, nay, in the fame Town and Air, shall never receive the Infection, provided they keep themselves a little out of its Reach, and at a fufficient Distance from infected Persons and Places? How comes in that the Negroes, whose Food is when mostly

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mostly rancid Fish or Flesh enay baster the Flesh of Dogs, Cats, Affes, Horses, Rats 1880 whommostly lead very intemperate Laives, and who are always wonfe claderand most exposed to Surfeits, Heats, Colds, and all the Injuries of the Air, are fo little Subject to this Danger ? Nay, supposing the Bile were ever so alcalescent, or even compted, or mixed ever so plentifully with the Blood, I cannot comprehend (without fome Pefilential Labes were really added to it) that it should be able to act so cruel a Tragedy in fo short a Time, as that of inducing an universal Mortification all over the Body and its Juices, and as it were causing a total Syderation of the Animal Spirits in the Space of Twenty-four Hours, as thas fometimes been observed. I have only this to add farther, that it is notorious, every Acute Fever of any confiderable Continuance does commonly leave fome Sort of vellow Discoloration non the Skin beand yet this is never imputed to any Fault in the Bile, but rather to the Attrition on Diffolution of the globular Blood through the continued Force and Rapidity of its Circulation; and feveral Inflances might be brought to thew how by this Means, especially where large Evacuations have been made at the fame Time, the Blood has been rendered for thin, woods, andudiffirited, that fome of the extreme Parts have more tified, fame.

Cases, the Skine is often discoloured in the same Manner, and so it is in Beggars and the poorest of the People, whose Blood is weakest and most depauperated. Similarly and so it is in Beggars and seakest and most depauperated. Similarly and all should not have dwelt so long upon this Point, but in order to obviate some exgregious Errors of a late ingenious Physician of this Island, which, as his Treatise is got into many Hands, may possibly mistead many People in these Parts in their Practice and Judgments: Indeed I had the Pleasure of convincing him of those Mistakes, and I must do him the Justice to

declare, that he frankly retracted his Opinion before he died, and would willingly have called in the Copies, could he have found Means of doing it.

any Permanency, the Scene is again from thifted, and now many terrible Harbingers of the expected Catastrophe appear a Blood flowing out by the Nose and Mouth, large Quantities of black mortified Blood voided both by Vomit and Stool; the Urine almost quite black, the Pulse low, tottering, unequal, and intermittent, most difficult and laborious Breathing, Startings, horrible Asiaistics, Hickory, cold-Sweats, Death-like Cold-nose in all the Extremities, thoughtst, the beath beath.

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fame time an intense burning Heat, with torturing Labour and Oppression about the Heart; now an intire Loss of Reason and all the outward Senses too, with livid Spots in many Parts of the Body, principally about the vital Region, which symptoms are soon succeeded by Death dreadful to the Beholders.

This is the third Stage of the Distemper, which I think I may justly call the Gangrenous State. Soon after Death, the Body appears much fuller than before of livid Blotches, especially about the Region of the Pracordia, which from the Beginning seemed to be the chief Seat or Throne of

the furious Conqueror.

In this Manner and Order the Difease invades and proceeds in its middle or most ordinary Form. But there are some extraordinary Shapes of it too: For in some Inflances, the Violence of it from the first Hour is fo intractable, rapid, and precipitant, and it bears so very great a Likeness to the Plague itself, that it gives no room at all to discriminate its different Stages, she whole Tragedy being finished in the Space of twenty-four, thirty, or forty Hours, with the most direful Symptoms, and a purple Hue, much inclining to black, covering almost the whole Body, even before the Article of Dying, or at leaft immediately afterwards,

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And on the contrary it happens sometimes, that this Fever, both at the Beginning, and throughout its whole Course, is attended with less Danger, and sewer and milder Symptoms, than those enumerated above in the ordinary Form, and is most easy to be overcome; but yet even in this Case of Serenity and seeming Security, Danger is readily invited or brought on by over-hasty, bold, and improvident Administrations:

It is proper here likewise to mention another Observation of very singular Mo-ment. I have seen sometimes (tho' I must own but feldom) when there was great feeming Danger and Distress, that the fick Person has been suddenly and unexpectedly relieved by a large critical Eruption of Boils or small Abscesses all over his Body. To explain how and from whence this favourable Phænomenon arifes, it will be necessary to give a short View of the Natural Tendencies of Inflammation in general. There are three principal Ways, by which Inflammation is usually determined; viz. Resolution, Suppuration, and Mortification or Sphacelus: The first, which is the commonest and safest, may every Day be observed in all light Inflammations, and even in most Fevers, where, by Evacua-tions, and the Use of Attenuant Medicines, the Obstructions are removed, and the Obffruent

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struent Particles rendered so thin, as to be capable of passing forward and being received again into the Laws of Circulation: The fecond (which is applicable to the Cafe I have just mentioned) happens, when the inflamed obstructing Matter, being of a large Quantity, and yet of a mild Nature, is maturated and digested along with some of the tenderest obstructed Vessels into a whitish, thick, fat, glutinous Humour, called Pus: This is observable in Boils, Buboes, and in all Abscesses or Imposthumations, some degree of Fever being required to ripen and perfect it; and it is attended with little Danger, unless the suppurated Matter be unluckily translated upon some of the Noble Viscera. The third happens through a malignant Acrimony of the Humours, by which they tend to be changed into a thin, corrofive, gangrenous Ichor or Sanies, especially when accompanied by a great Loss or Depression of Spirits, or too fudden a Sinking and Abating of the Fever: This is most commonly the Case in the Plague, and in all Pestilential Infections; but even in the Plague itself, when the Boil or Carbo happens to be rightly inflamed, and then to suppurate kindly, without finking or growing foft and livid, the infected Person often escapes with Diffinction as among Stell Shirt this lower Clair of poor Marine

I have now described this Distemper as well in its commonest and most ordinary, as in its extraordinary Shapes: As to its extraordinary Appearances, it is no hard matter to foresee soon, what Event may reasonably be expected. But when it ap-pears in its most common Form (though God knows that is dreadful enough) I can fafely, without Offence to Truth, declare, from my own repeated Observation and Experience, that it is not at all insuperable, but may be happily overcome by a just and prudent Conduct; to which, even the Jactations, Deliria, Vomitings, Sigh-ings, Anxiety, and Oppression, Bleeding at the Nose and Mouth, &c. will readily submit; provided due Care be taken, and that early at the Beginning, to divert the acrimonious infected ferous Particles from the vital Parts, and extrude them out of the Body by the proper Organs of Sweat and Perspiration. It has been mentioned before, that New-comers and Sea-faring People are filest liable to this Contagion; but it must be observed, that it sometimes (though more farely) invades the Natives too, of whom at Times I have had many under my Care. Indeed, had the Instances of its destructive Rage been so frequent among the Natives, especially those of Opulence and Distinction, as among Strain-C 2

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it would, without doubt, have made much more Noise, and raised much more frightful Alarms, than it has hitherto done.

I have, in general, remarked, that it feizes the unfortunate Person most commonly, is, After hard Drinking and sitting up late o' Nights, and then exposing the Body to the damp, chilly, Night Air; 2dly, Upon any too violent Exercises of the Body, by Labour, Walking, Running, Dancing, and the like, and then cooling in the Air, too suddenly, without sufficiently defending the open Pores; 3dly, Upon drinking large Draughts of cool Lichors, particularly cold Water, upon the aforesaid Occasions.

The poor common Sailors, who notoriously suffer most of any, while they remain in our Ports, have perhaps less Conduct in their Way of living than any Sett of People in the World, drinking ever hard of the vilest and cheapest strong Liquors when ashoar, and then going off upon the Water with Breasts open, and their Bodies poorly covered, even in the Night: Besides, if there he any Impurity in the Air of our Island at all, it must be only about the Wharfs, where always is the chief Resort of Sailors, either for Bulinels or Pleasure; and it is not malikely, that those may be the most proper Places for harbouring, improving, and spreading

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the Contagion, when once it has got Foot-

ing amongst us.

It will be readily granted, that the Peft, Pestilential Fevers, and other Contagious Distempers, operate upon our Bodies by poisonous Qualities, destructive of the human Oeconomy; and that their Virulence consists of Particles truly material, though halituous or volatile, and no ways to be perceived by any outward Sense. These Particles, being by any means infused into and mixing with our Juices, do foon change fuch Liquids as they first meet with, into their own Likeness and Nature, and these again infect others in a fort of proliferous Manner, until the whole Mass becomes contaminated; and this happens more quickly or flowly, according to the different Force of the peculiar Venom, or its different Mode of acting, as appears plainly by transiently comparing the Plague, Spotted Fever, Small-Pox, Leprofy, Lues Venerea, &c, It is certain, that almost all Poisons have a distinct specific Power, each operating constantly in its own Way and with great Regularity, though all with a wonderful Disparity of Effects: And this appears still more manifestly in the Symptoms arising from any such Poisons as getables, 636. whole Venom is more gross and material, and consequently more evident

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dent to the outward Senses. Of these, some produce surprizingly very different Diftempers; so the Bite of the Viper and Sting of the Scorpion, do in a very few Hours deform the whole Surface of the Body, by a most filthy Sort of Jaundice; the Cicuta Aquatica creates Convulsions, Madness, and Epilepsy; the Solanum Sommiferum affects by Narcosis and Stupefaction; the Bite of the Asp gives a gentle though fatal Lethargy; and of late Years the di-Stilled Water of Laurel Leaves has been found to deftroy almost instantly, by blasting as it were at once all the Animal Spifits, without leaving any visible Marks on the Body or Bowels; Vapour of Lead brings on the Palfy; the Dipfas kills by an enormous Thirst; the Amphishana or Hamorrhous, by occasioning a Bleeding out of the Ends of all the Capillary Arteries; the Seps, by Putrefaction and Gangrene; the Phyleter, by inflating or blowing up the cellulous Membranes all the Body over, to that the wounded Person shall in a finall Time be fuffocated, and as it were buried within his own Skin. Some do chiefly affect particular Parts of the Body, as Cantharides the Bladder; Opium the Brain; the Solanum Furiofum the Eyes, by taking away the Sight; the Apium Rifus or Herba Sardoa, the Diaphragm, by throwing it into tremulous Concuftions,

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and fo imitating Laughter. Others, again, are highly noxious to many Creatures, and vet are the Food of others; fo Goats eat Hemlock; Hogs, Henbane and Mandrake: Storks and Offriches eat Serpents and Toads; Hens and Marmosets devour Spiders greedily; and Swallows have been, in some Parts,

observed to feed upon Cantharides.

Many more Instances of this wonderful and inexplicable Variety of the diftinct Powers of Poisons might easily be brought: but none so intirely eludes our Search or baffles our Reason, as the Virus of Pestilent Fevers; infomuch, that no Writer has been fo weak or fo hardy, as to undertake an Explanation of the peculiar Indoles or constitutive Principles of their Miasmata, any other Way, than by making loose and vain Conjectures; the Ancients attributing the Cause to Forms and occult Qualities, and some of the Moderns to venomous Volatile Salts and Ferments, others to imperceptible pestiferous Insects, &c. fo that the Matter is still left as abstruce and mysterious as before. But this is certain, that there must be fit Conditions in the Air to foment and propagate such Particles, besides an Aptitude and pre-disposing Crafis in the Juices of the Body to receive and entertain them, for which fome Men are more qualified than others with to suit

throwing it; into tremulous Concustions;

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mi However, this or any other Halituous Infection may be communicated many Ways, and principally by the three following; viz. sft; By immediate Contact of the diffempered Subject, either living or dead, his Clothes, Spittle, or the like; 2dly, By inspiring the Contagious Effluvia into the Lungs along with the Air, or by swallowing them down into the Stomach along with the Spittle or Food; these two Ways are presumed to be the most ordinary; and 3dly, By being from the ambient Air infinuated or imbibed into the Absorbent Pores of the Skin, and so mixing soon with the Lympha, and then with the Venous Blood, along with which it is directly carried to the Heart; for the whole exterior Surface of our Bodies is immensely full of Absorbent Pores and Vessels, that arise from a fine Net-work or Intertexture of subcutaneous Veins: This has been observed by Ruysab and Eustachius, and the Truth of it is confirmed by many undeniable Experiments: But the Danger of being feized this Way is very different, according to the Distance from, or Nearness and Vicinity to the infected Person or Place. It has, of old, been a popular Remark, that Contagious Difeases are caught frequently, not only after great Debauches with strong Liquors, by which the Spirits are the next Day much prostrated, but even upon any Dejections of Mind, vino 5

Mind, Frights, and the like, particularly in the Case of the Small-Pox; and this is vulgarly imputed to the Animal Spirits retiring to the Center, and gathering about the Heart, and so leaving the Out-lets or Avenues unguarded: Let the Reasoning be how it will, the Observation is of good Weight; and I have often had some Grounds to think, that it might take place in This MALIGNANT FEVER too, having feen it lay hold on most of those, who were under the greatest Uneafiness and Apprebenfions about it *.

The Nature of this Distemper might long ago have been much better understood, and a more certain Method of Practice found out for it, if some discreet and ingenious Practitioners, who were equal to fuch a Task (of whom I am persuaded there have been several here at Times) had only waited calmly and leifurely at the Beginning of its first Appearance, and weighed with due Attention the regular Course of the Fever, observing carefully the Rise, the Increase, the gradual Successions, and the Recess of its Symptoms, neither disturbing their Constancy, nor inverting their Order, by Bleeding, Bliftering, Purging, &c. and

L. feora

^{*} Multi ex folo timore & imaginatione inciderunt in Febrem Pestilentialem. NICHOL. MASSA.

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only giving proper Diluents and Resolvents, and (if Circumstances required) at few of the easiest and mildest Medicines By this means, both the Safety of the Community, and possibly the Health of the individual Patient, might be better confulted, and the Method of Practice reduced to a very great Exactness and Certainty. But unluckily, either too much Impatience on the Side of the Sick, or too great Hastiness, Sufficiency, or Prepoffession on the other, has hitherto prevented the World's being obliged with any established Rules. In this Posture then, not only of Uncertainty, but even of almost utter Ignorance, how is it possible to devise and prescribe any safe and falutary Remedies, or to be able to diftinguish between the Juvantia and the Lædentia? Surely, without a competent previous Knowledge of the Disease, no Method of Cure can be fixed at all; and in fuch a Case, it must be acknowledged, that the most able Physicians are mere Adventurers, and unfair ones too; in a Matter of no less Concern than the Lives of their Fellow-creatures : If the Patient has the good Fortune to recover from his Illness, and out of their Hands, it is affuredly more owing to his own Strength of Nature, and happy Temperament of Body, whan to their Art or Advice. mane nied in their own Families on common

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at I reom to fpeak this with a Defign of giving the least Offence to any of the Faculty deveration bird inferior Branches, but putely one of Love to Truth, and with a Candor becoming an honest Minding bas However, for the Unfuccessfulness of the common Practice, there may be deveral more immediate Causes very justly assigned. The first is, either the mistaking this Malignant Difease for a common Inflammatory Fever, and treating it as fuch, even when evident Signs have been discovered of an uncommon Malignity; or the being inadvertently overfwayed by the vulgar Opinions, that these Sort of Fevers are truly Bilious. The second is, giving precipitately too many and too great a Variety of Medicines, when it is certain, that Nature in all her Diftreffes and Complaints, as a good Occonomist, requires but a few, and is fure to be hurt by Numbers, the Cure depending always on the right Choice, and not on the Multiplicity or Quantity. The third is (befides an almost invincible Prepoflettion in favour of an old deeprooted Opinion) a strong vulgar Prejudice against lany Politions that are new in The ignorant Many never fail to raife early Clamours, when they find Feverille Indifficultions treated in a Manner very different from what they may have feen used in their own Famlies on common 1 toots D 2

28 Of the Malagnand Fryer

Occasions, and perhaps attended with Succels; and as they are weak nenoughd to imagine all Fereis to be alike and hof one and the same Species, a Physician must undergo their Censure, if he neglects or discourages Bleeding, Blistering, Vomits, &c. Fourthly, the obstructing or preventing Nature's own Way of operating by the Evacuations just mentioned, and so throwing all the Symptoms into a perfect Anomaly and Confusion; that often there is a meer Impossibility to asswage the Hurry or repair the Mischiefs committed by them. There are many Practitioners in this Island, (exclusive of a few Graduate Physicians) and some among them Men of good Un-derstanding and Abilities; these are generally first sent for, before a Physician is called upon: To such I have many times explained my Thoughts on this Subject, and convinced them by my Reasons : Yet I have often lamented, that they had not been able to withstand the Solicitations and Importunities of the fick Person, or of his Relations, and Exiends, but were iprevailed upon to Bleed, and perhaps Vomit

By what I have already advanced, it may be easily perceived, that I do in a great measure, forbid the ordinary Evacuations, by Blood-letting, Emetics, Vesicatories, or Purgatives, in this Pestilential

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Fever, in which, from long and attentive Oblezvation, D'declare them to be gene rally permicious and destructive in their Consequences, I mean, in the Manner that has been usually practifed. Vomits and Blisters I do utterly discard; but Bleeding and Purging, with proper Restrictions and Cartions, may formetimes be allowed of in certain Cases, and at certain Times, when they may not only fafely, but must necessarily be done, as shall be shewn hereafter in a proper Place: However, the Physician must be exceedingly wary, and very diligently weigh, how far, when, and on what Occasions, they may be of Ufe. For what I have afferted I shall offer my Reasons, which I hope will appear fufficiently cogent and convincing to every Rational Man, as well as to Judges in Physic side

thewn the Texture of the Blood to be here over thin, rarified, and dissolute, with a plain Tendency to Mortification, which it is well known that Bleeding will promote, by giving more Room for Expansion and Rarefaction, and to occasioning a further Liquefaction of the circulating Plaid as well as by producing Weakness and Profession of Spirits: This Lois of Spirits is very severely felt in the Course of the Disease; and much more so, when

the Operation had been performed with a tiberal Hand, more repeated two for three Times, as has been too often practifed. peal to all who have been converfant in the Bufiness of Medicine here during this reigning Constitution, who I am persuaded will readily own, that taking away Blood in a large Quantity or often, and especially after the first Day, has always aggravated the Difeafe, and exasperated all the Symptoms, and laid a fure Foundation for inevitable Ruin. I must acknowledge, that when I am very early called, if the Patient has been a very hard Drinker, or geos Feeder, or is of a sanguine Complexion and full Habit, or the like, I order a Vein to be opened, and take away fome Ounces of Blood, more of less as Circumstances seem to me to require: But I am for the most part sparing, and always cautious of repeating it again; having ever found, that even this one Operation has certainly given a manifest Exacorbation to all the Febrile Phanomena. In phlegmatic Conflitutions I feldom allow in to be performed at all, and Plam fore Li have feen many fuch fuffer for admitting it One main Inducement to Bleeding, befides those above fet forth, is, that Blood's Confidence, and the Colour and Quinfahe Nature Nature of the Serum; whereby raquore distinct older of the Distemperal may about formed However. I never that I sahave often very happily succeeded, where the Persons have not been bled at all, the of the grosest and most plethoric Hair bits current may a more positive of the grosest and most plethoric Hair bits current may a more positive of the property and most plethoric hair

Tis true indeed, that common Fevers in these hot and Sun-burnt Parts of the Globe, do generally make a much quicker Progress than in colder Climates, and confequently require large and speedy Evacuations at the Beginning; for which Reason Recourse is had here to Venesection almost upon every little Heat that exceeds the Natural, and often both idly and ignorantly: Nay, the Vogue for it is fo great, and the Custom fo common, that every raw, unexperienced Practitioner (perhaps just emancipated from an Apprentice thip) will immediately use the Lancet when he does not know the Diforder, or what else to do: Of these absurd Proceed. ings there are too frequent Infrances no By fuch Dabblers in Practice, I have known Blood to be drawn in the Dropfy in a Palfy, even in the Paralytic Members on which a Gangrene has sometime ensued; in deplorable Tabid hand in low Hysterical Cases : By such I have known Blisters and plied to the Small of the Back for the Pains of Gravel, to the Throat for a Quinfey, Nature

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Quinley, and to the Pit of the Stomach for the Cardiagra : By fuch Phave known Emetics administred in the Iliac Paffion, in Angines, in Confirmptions, &?. in the very Agonies of Death itself, which all possible Hopes of Relief were abiblutely over. By fuch, likewise, I have known A-Lethargic Cases; and Purges ordered during the Eruption of the Small-Pox, early after Child-bed Labour, in the lowest State of Confumptions, and in the Beginning, or even the Height of the Colica Pictavorum; in which laft Case there often enflies, either a Loss of Limbs and Speech, wor a Mortification of the Heum, in that Part where the Spalmodick Constriction is featward Operation of Mercary, I am per bo

By the way, as I have just mentioned the Dry Belly-ach, I beg Leave (though its not to my present Purpose) to observe, that it is a Disorder as easily to be managed, and as safely to be cured, as any of the whole Tribe of Diseases incident to the human Body, and that merely by Anodynes mixed with Antibysterics, given carefully at proper Intervals, and in sufficient Doses, viz. two or three Times in the Space of every twenty-four Hours, intervals, by an intire Absence of Pain, the Constriction or Spain appears to be quite gone over, and then any mild Purgative (such

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(fuch as is not of too windy a Nature as Manna, or the like) will be useful to come

Enerics administred in the surprise site of L. cannot avoid likewise taking notice here (though it is out of my Way) that, a very odd and unwarrantable Practice has obtained for many Years among feveral of the Plantation Practitioners in this Island, of giving Calomel in Inflammatory Fevers, when the Blood appears to be much loaded with Size, in order, as is pretended, to remove its Siziness, by rendering its Particles thinner, or less viscid and cohesive. This Practice is much condemned by all judicious Phylicians at Home: And if thefe Gentlemen did but thoroughly understand the true Nature of the Size, and the inward Operation of Mercury, I am perfuaded they would be more cautious of playing with so dangerous a Weapon. The Thickness or Lentor of the Blood cannot be removed at once, or of a sudden; but many Days are required to reduce it to a due Fluidity; and this End is to be gained chiefly by Evacuations, and a plentiful Wie of Resolvent Diluters. The Serum of the human Blood, in all Chymical Processes does exactly refemble and answer to the White of an Egg, and is coagulable by the Heat of Fire, or in rectified Spirits of Wine: Now let us suppose the Heat of the Body and the circulating Fluids (fuch

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to be by any Means (particularly by a Fever in to much increased, as greatly to exceed the Natural; bit will follow, that many ferous Particles will receive fome Degree of Coagulation, and fo form themselves into Sizy Ramenta or Filaments, as the Albumen is foon observed to do, when put into hot Water, though many Degrees below that of Ebullition. Befides, it is known to every one who has been but a little conversant in Physic, that Blood drawn immediately at the Beginning of a Fever, shall most commonly be very free from Size, and of a fine florid Complexion; and yet, after twenty-four Hours, take more Blood from the same Person, its Surface shall be covered over with a blueish or whitish glutinous Substance, the Serum having then undergone a fort of Coction (if the Boldness of the Expression may be excused) from the intense unnatural Heat of the Body, and Ardency of the Fever a pais over smany others. Physical Reasons and shall only mention that the fame may bindeed be caused likewise by a large Ingurgitation of Spiritous Liquors of by lover-violent Motion and Exercise, of Riding, Dancing, Running, Wrestling, Boxshew of Good Sense, be imagined, that a Dose of Sweet Mercury or Calomel can loosen 74m

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loofen and diffolve fuch Concrescencies and Coheffons? As to Mercury's operating and wardly, it is granted, that, when mixed with the Blood, and passing along with it through the Heart, it affects to take its Course almost in a direct Line through the Ascending Trunk of the Aorta up to the Head and superior Parts; for by the Laws of Hydraulics, the weightiest Parl ticles, of equal Minuteness and Sphericity, will always flow quickest and in the straightest Lines; and every Anatomist can tell, that this upper Passage from the Heart is much more direct than that through the Curve of the Descending Trunk. Indeed where there is no Fever, and the Velocity of the Blood is not extraordinary, the Mercurial Clobules pass along eafily enough, and without Danger, or are fornerimes invilcated in the Salival Glands, and to raife a Ptyalifmus; but when the Velocity of the Blood is exceedingly increased, as in Ardent Fevers, What Ruin and Devastation must this active Medicine commit Iffished fofte Substance of the Brain, among Velicis of inconceivable Exility and Tenderness I I have been, on some Occa-fions, Witness of its severe Effects, and I then objerved, that in Some Time after the Dose was taken, the Person has grown Delirious, and soon after died in a wille. rable "raving Condition. 15 Some, 'ris Grue, E 2

mays happily leftapers but I same certain, togt af londy one in fifty fetilhed by that Means, sit inversity enough spoy deterns wife Mansfrom every giving oits again on the like Occasions of I have never yet sheard of Mencury being given in this Malady will are treating of, and I hope I never shall, as no doubt it would here act an uncommon mischievous Part. Perhaps this Digression may carry its own Apology with its as being a Monitory on Warning against such Mistakes.

Secondly, As to Emetics : Thefe come usually next in Order, and the quafortunate Patient must immediately after Bleeding have a Vomits gramm'd fldown whis Throaty especially if he shews any Signs of Sickness of the Stomach, or Oppression about his Breaft; even the By-ftanders will plually folicit hard for it; and a modest Man may not always have Firmness enough to relift their clamorous Infrances A Inhave too toften by Experience found, that Vomitives enrage the Distemper, raile an unappearable Hurry and Tumult in the Spirits, grievously affect and irritate the blerges of the Plexus Candiagus, and all the Netyous Membranes about the Pracordia, give adjurther Diffolution to the Blood, and in short of stand and of the other left) cardile a Demon that is scarce everyafter to be laid, but by the Death of the Patient II have indeed Commi-

indeed fometimes feenthe fick Man efeape with much Difficulty through this Danger; but, generally speaking, the Effects of shich an Administration ministhis Distembers be fo dismal and furprizing, I that the Stomach will receive neither Medicine nor Suftenance for the future quitil lafter the most laborious and painful Concuffions, Hiccups, and almost Convulsive Contractions of the Parts. Signs of inward Gangrene difcover themfelves, and Nature's Strength is at length quite spent and worn away. saxaftiM doult am Thirdly, TAs to Vehcatories : After Vomiting premised, this is ordinarily the next Step ataken ybysithen unwary Practitioner; which Coftom has made almost facred, and the Fear of Reproach almost unavoidable. atileaft in these Parts; for I am fully fatished bhat more Blifters are made use of yearly inbthis and the other Sugar Codonies than in the united Kingdoms of Great Britain alltudsorwell known at that the Salts of Cantharides do thin and attenuates the Bloods fand therefore in Intercurrent Fevers they lare very commonly applied to rectify the Thickness and Viscidity of it, and frequently are of remarkable Advantage and Uses but in this State of Gollignation, it is easy to perceive, that suche Applications can be of ano Service, white bis the contrary must be highly detrimentald They cause is greater Solution and Commiindeed

38 Of the Malignant Fever

Comminution of the red Globules, exalt the Acrimony, and superadd a quicker Force, Poignancy, and Activity to the Infectious Particles; besides, by inflaming the Bladder, stopping the Secretion and Excretion of Urine, and by the other Torments they produce, they increase the Restlesses of the Body, and the tumultuous and inordinate Motion of the Spirits: It is notorious too, that in this Fever, when the Blisters are first cut, so deep a Redness is usually seen in the naked Flesh, that some Degree of Mortification may justly be dreaded and soon expected, unless happily prevented; the Colour many times changing into purple, plumbeous, livid, and at length almost perfect black, with a Quantity of Sanious Blood oozing through the blistered Part, even when the Body is still alive, and often after Death.

Fourthly, As to Purgatives: I can with Truth affirm, that there is very little Occasion for this Administration, provided copious Sweating has been provoked and continued for a sufficient Time at the Beginning of this Disease: And, in particular, I can aver, that the unwary giving of strong Purges after plentiful Discharges by Sweat, especially if often repeated, are exceedingly noxious; so likewise, when they are given too early, and during the Height

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of the first Feverish Tumult, or in such large and full Doses, as the Body might have been accustomed to in a better State of Health: I have observed them very apt. in this dissolute Condition, to occasion either an Hypercatharsis of a Diarrbaa, by means of which, the Patient's Strength is foon to proffrated and exhausted, that he wants Spirits to support him through the Remainder of his Illness; and confequently, the Disposition to Mortification is remarkably promoted, and a deadly Coldness comes on in the extreme Parts; infomuch that the Tragedy foon ends in black bloody Stools and Vomits, Fainting, Syncope, and Death,

In some Constitutions I have met with a natural Proneness to Alvine Dejections: And here I think it requires the Physician's best Art and Diligence, either to repress them seasonably, or to manage them so dextrously, as to make them of real Service to the Patient. In others, I have known a sudden Flurry of several Stools unexpectedly arise, which have so supprizingly sunk the Forces of the lick Person in a very sew Hours, that the most speedy and studious Endeavours were required to prevent the impending Hortors.

and that frequently too without Success
I ought to observe here, that the fatal
black Stools and Vomitings are vulgarly supposed

supposed to be only large Quantities of black Bile or Choler; which false Notion seems to be owing to that fixed unhappy Prejudice, that the Fever is purely Bishous. But let any one only dip in a Bit of white Linen Cloth, he will be soon undeceived, and convinced that scarce any thing but mortified Blood is then veided; for the Cloth will appear tinged with a deep bloody Red or Purple, of which I

have made many Experiments ob againing

Notwithstanding what has been said, I do readily acknowledge, that there may be sometimes just and sure Indications for the prescribing of light Lenitive Purges, fuch as Manna, Caffia, Lenitive Electuary, or the like; which, for greater Security, I recommend to be given diffolved in Sack-whey, in small Doses, with convenient Intervals between each Dose, until fome Tokens are felt of approaching Purgation. But there are certain enough Rules, if duly attended to, whereby to judge, when and how far the Use of them may be safe, advantageous, or necessary: The great Rule, in my Opinion, should be this, that the Sudorific Method has been unhappily rejeded or the true and proper Season for it foffered to elapse to which may be added these others wish a Costiveness of Body, full Bowels, Uncafinels from the Retention of Excrements Abstament of first Cardines

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first Peverish Impetus, Sufficiency of Spirits and Strength, Obstinacy of the Yellowners, and the like. In this Manner, on fuch fure Indications, and with fuch Cautions, I think the same Lenitives may be repeated two or three Days running, as the Circumstances of the Patient concur to require them, or flew him capable of hearing them: Nor need the Practitioner be deterred, though the Vomitings do still remain, or even the Yellow State is come on; provided the Yellowness does not shew itself within the first two or three Days, nor is very deep, plentiful, and universal; for in such a Case it never fails to be a mortal Presage, as even all the old Women and Nurses that tend the Sick can vouch; fo far is it from being the Happy Crisis that fome have imprudently alledged. When the Bowels are kindly opened by these Means, I have with Satisfaction observed, that very putrid Fæces were expelled, the Secretion of Urine enlarged, the Intestinal Glands cleanfed, much of the corrupt and infected Serum carried off, and confequent ly the Yellowness either prevented or fenfibly leffened; and in fome measure removed. But great Care should be had to keep up Nature's Strength and Spirits, by giving now and then a little warm Madera Wine, Canary, on fuch Cardiacs - मार्ग

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Cardiacs as are not too inflaming. However, I must give this Notice once more, that the Purging I have here recommended, is for the most part rather from Necessity than Choice, there being no other practicable Way of Safety now left; and this principally from having unadvisedly omitted the seasonable Extrusion of the Morbific Matter by Sweat, while the short-

lived Opportunity prefented itselfort with I flatter myfelf that I have now given fatisfactory Reasons for what I had so Arenuously advanced concerning the Danger, and against the improvident Use of the above-cited Evacuations. And I call upon every candid Practitioner, who is capable of judging right, and has had Occasions of long Experience in this Disease, to declare, whether he has not found these Observations to be agreeable to Truth, as well as his own Reason; or whether he has ever once feen the fick Person receive real apparent Relief or Advantage from any of the aforefaid Administrations, except in the Manner and with the Cautions I have now advised, but rather (indeed almost ever) exactly the Reverless though poffibly here and there a lucky Patient might have passed with Life through that Ordeal Trialing model and from I

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Endentia, tis proper, before Iliproced to

the Method of Cure, to give fome neceffary Cautions concerning the Use of Anodynes on That Anodynes contribute to expand and rarefy the Blood, as well as often to induce Gangrene, No-body, I believe, will be hardy enough to deny, and so far they must in this Disease be undoubtedly hurtful: But, besides the phyfical Reafons, what I have principally to offer from my own certain and constant Observation is this, that upon taking an Anodyne (which the Patient himself often fues hard for to obtain a little Rest. or to ftop his wearifom Reachings) the Yellowness shews itself generally the next Morning all over the Surface of the Body and the Whites of the Eyes: Indeed the Fever will thereupon feem fomewhat to abate; but I have demonstrated before, whow unhappy and almost deplorable his Condition then is But if there should the any wife at all that will any wife admit of an Anodyne, it is only when a Diarrhea or Hypencatharfis calls loudly for infant Relief and even then I am of Opinion that the Dose ought to be dlight; and of the rich Alexipharmac Kind, fuch as the Confection of Andromachus, ght have passed with I are skibuget tout

I must here subjoin another Remark, which behink is of no small Consequence.
Almost all the best Writers in Physic have

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firengly recommended a free Userofanita trous and subacid Medicines land Hiquors in all Inflammatory Fevers of the latercurrent Kind, and with good Resson toons as they flake the Thirt afficing attend nuating the thick Blood, and kindly move both by Urine and Perspiration of Butiding this peculiar Fever I have had many Opportunities of being persuaded that they offend the Stomach, and create a Nausea and Vomiturition, perhaps by their too chilling and refrigerating Qualities to It is certain, that Nitre here in any Form has these Effects; either in its pure Salt, or made into Sal Prunella of Polychreft I have even found, that sweet Spirit of Nitre (tho' corrected by an equali Quantity of Sal Vol. Oleof. or Spinit of Hartfe born, by which it is changed into a Sal Neutrum or Compositum, and so rendred a gentle Diaphoretic haits very alla here con the Stomach, and is foon loathed by the fick Person. The very vegetable Acids, as Lime or Lemon Juice (Inhave inften remarked) feem to give offenfive Irritations to that Bowel, though only used to acidumits without Difficulty to the Tage again

When an accurate Knowledge of the Nature and History of the Distemper is obtained, and the Physician is now able to form a just Idea of the true Causes that distress and disturb all buther vi-

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Body, pile will food discover the Caufa Preximand by attentively confidering and comparing the Remedies that have hitherto been found either notent or be neficial, the cannot well be at a loss in pitching upon the right Method of Cure, or in the Choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing that desirable and the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instruments of compassing the choice of proper Means and Instru

Whoever has been conversant with Authors who have treated of the Plague, must have found among them (Bottallus and a few others excepted) an universal Consent, that all Evacuations, by which the Tone of the Blood is broken, and the Spirits exhausted, are attended for the most parte with fatal and calamitous Effects; and that no Remedies give fuch fafe and fure Relief as generous Alexipharmacs, Diaphoreties, and Sudorifics. The Diftemper now reigning is certainly of the Pestilential Kind, or at least of the nearest Affinity and Proximity to it. It is demonstratively made more Malign and Mortal byolfreely using Evacuations, and it submits without Difficulty to the right Ufe of Alexipharmacs, to given as to open the and Hillory of the Distemper is:

character, and the Phylician is now able to the state of the state of

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Pores without inflaming the Body. MAnd it really feems very frange to me, that this rational Method of throwing out the morbid Matter from the Vitals by Swear, should be so long despised or overlooked, fince Nature herself appears, from the Beginning, very ftrongly to indicate and endeavour to relieve herself this Way, the Skin being then generally moift, and the Pores open and well disposed for the Purpofe. The Poison here is Spirituous and Volatile, and to be expelled from the noble Parts only by Effluvia, through the Chanels and Pores of the Skin that the whole Circumference of the Body is most plentifully furnished with, along with the infected ferous Particles. When these acrimonious and noxious Particles are cast off by a large and continued Diaphorefis and Sweat, the remaining Scrum becomes better and purer, and the red difunited Globules are now at more Liberty to attract one another and come into fresh Cohefions; by which Means, the Tone of the Blood begins to be mended, its Texture frengthened, and a firmer Foundation laid for Recovery. But this should be attempted (generally speaking) within the first twelve Hours from the Invation, before the Infectious Labes has made too great a Progress, and given too deep an Inquination to the Juices; and I ought to inculcate this Remark with great Earnestness, as I have with Certainty found, that nothing is more detrimental to the Patient than Loss of Time, nor more apt to frustrate all our Services and Endeayours

I must here give Notice, that when I mention the Words Sweat and Perspiration promiscuoufly, in Compliance with the more gross Use and vulgar Acceptation of those Terms, I am well aware, that in a physical Exactness they are two different Things that are performed in a very different Manner, and by different Organs. And indeed nothing is more common than to express oneself by a commodious Phrase or Term, whose Sense may be at once apprehended by an impartial Person, though it be not strictly justifiable; as when by the Word Nature, we mean either the Vis Vita, or the Laws of the Animal Occonomy, or even the whole Creations, and fo of many others: Scarce any one has ever wrote but might incur Centure without this Licence given him, and every Man of Candor will allow the Benefit of it, when the Delign of the Anthor is honest and benevolent

my present Purpose, and for the more fully informing those who in these Parts may possibly have wanted the Opportunities

of receiving proper Lights, to give fome thore Explanation of the Distinction I have made of these two Cutaneous Evacuations; and to thew how great a Quantity of Humours usually passes by the Vessels of the Skin, and how eafily any noxious Matter may be protruded through them. There is an infinite Number of simal Emissary Ducts arising from the Miliary Glands under the Cutis throughout the whole Periphery of the Body that have each of them their Orifices opening unden the Scales of the Epidermisto in the Bottom of its Furrows, and leach lendowed with a proper Valve to open or thut, as Occasion requires of These are the true Sudarific Veffels But befides thefenithere are two other Sorts that fometimes emit Sweat; viz. one Sort called the Wala Ruy chiana, from the Discoverer Dry Ruyfob, that arise in most iminute Tubes from the fine Intertexture of the Subcutaneous Arteries, and open likewife ontwardly the other Sort are large, perpendicular, hold low Cylinders on through ownofe Sides nor Walls inwardly a great Number bof Sudonific Pipes exhale their Contents sinto the Cylindrical Cavities, where the Matter sis of ometimes of condensed and sindurated into a darkish Paste, as oto be mistaken for Worms oin the Sking Effecially in the Face; upon which, People are apt (igno-10

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(ignorantly enough) to fqueeze those tentoppress out the imaginary Worths, and often dougnuch Mischief thereby of The Perspiratory Vessels open obliquely in the Areacor Sides of the Furrows of the Scarf-Skin (for the Tops of the Ridges) observable to the Eye in the Ends of the Fingers, confift merely of small Nervous Papilla ofor the more exquisite Sense of Feeling and are of for great Subtiley that Lieungenbock has computed a common Grain of Sand will cover One hundred twenty-five Thousand of their exhaling Months: These are perpetually (except in cafe of Sweat) transpiring, in an invisible and infentible Vapoury fuch Particles of the Solida, as are by the Force of Circus lation abraded from the Sides or Ends of the friallest Vestels, or such Particles of the Fluids as Bre, by their too great Mil nutenels and Volatility, wendred unfit for the Nourithment and Repairs of the folid Parts, and have perhaps acquired forme degree of Acrimony by their great Attrition and Comminution; and it is taken for granted or that a Quantity of volatilized Oils and Sales which vit might be dangerous to retain longer place thus constant ly throwmout of the Blood. Thefe Ore gana of Peripiration are fo different from Sorts Face; upon Which, People arm appr (igno-

10 Of the Malignant Fever

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shanood a won veit telebt deswe man becomed a well known Maxim, the more all Man Iweats the less he perspires, and nice versa, the more he perspires the less the weats: for when by a large and ftrong Appulle of Humours the Suderific Wessels and bis larged in their Diameters, the Penfpiratory ase thereby necessarily so compressed, as not to be able to transmit much Vapour and, on the contrary, when the Diaphoreticy are most open and afreen they others must have their Sides collapse, lor be presfed together fo close, that little or nothing can transude through them! Eithebeiof these Evacuations is very great and expenfive though more on less, according to the Seafon of the Year, the Climate Tof the Country, the Age, Sex, Temperament, Exercise, Regiment Health, Mon Sickness of the Person: The old Distale called Sudor Anglicanus may revince uthat all the Thices of the Body might be exhausted bind little Time by the formery and Santonius has demonstrated wothat below the dattern Fade Eighths of all that liar lest land dook are imperceptibly learned woff brand that itnexseeds all the other Exerctions of the Bo dy put together mand it is found an bealways largest, when the Atmosphere is most flashthi Atlant I work, give and characteristics ampregnated with Moisture and Wasours, which G 2

which remarkably intercept the Atmosphere's well known Maxim, thigisWrenedmylani ha Contemplation of this wife and wow derfow Machanifum (of which what has been ndwydfined of the exterior and hoperfil eind Parts will ferve at least to give fome imperied Idea) and as Confideration gof the confrant Wafte of the human Frames byuinschsible Perspiration and otherwise, willge I hope, excuse my adding here a few eurlory Remarks on An That the very Wis Vita would foon deftroy us, were finot thed looks coffithe a Bluids perpetually fupl plied and the Detritions of the folid Para ticles immediately repaired at the fame Time, garidoby the fame Force was clyil adly, of har the true Nutrition of the Bodystfoodladd not mean the fudden Re fection from Ment and Drinks is not performed sharpe chanels, nor by the groffer Parts of jour Aliment, or even of ouri Blood bandin the amost vexquistely fine and tenderest Vessels and by fuices that must shave passed through innumerable Degbeesnof Pluidityd before they be come perfect and iduly fitted for the aforefold Supplies and Repaired addy That in the State bofio Infancy nour Wessels are by muche the dinord namerous, fands confequently Ather Floids, doothehavaftly expled theo Solidanain fullo Martirity, behore is mais which G 2

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-il were ay fort doft Agailibrium many of bahe Wajasquinimainbeingsibyr That Time ichanged sintou Fibrous Btoffic Stamina pofor ashe adde Scrength and Firmmels ofbathe Frame: In Old Age, the Veffels take by finduch the fewest, band consequently the Solids douthen greatly exsuperate the Fluids atbly, That the Decrement ornigradual Decay of Old Age is owing to noshing elfe than to a daily Loss of fome of thefe finest Vessels (as well the internal asi the cutaneous) through Compression, Concrescence, and Coalition, to which the relifting Weight sof the Atmosphere, Muscular Motion, the very Circuition of the Humours, and the never ceating Pulfations of the writes of Arteries dob chiefly sund constantly contribute, until at length there is fcabce any Circulation but indthe Wafa Majora, the Skin grows alboverowithered and imperspirable on the greatest Vestels lewhole Sides are made upd only info Lafinitude of amaller ones habecoming hard and icompacts of the Tendons turning sinto meer Cartilages, and the Cartilages winto Bones it if is probable I fuch Obscivations mayonot be lintidely sufflessing manyof the Blarbadas Practitioners, thoughithere is Danger of thein-being nunprofitables to whe very unlearned Reader and perhaps amperfuch conflant and different sets or thenite smqs Led: But if, fortunately, nothing iat 118

Jugomennowilton describer my sown Method of Practice miwhich Experience and uncommon Succes have Tufficiently intified o where ever my Affiltance shas been Frame: In Old Age, smit hierost theyody ad When I am called to a Patient, diffust examine if he is fenfible of acute shooting Pains in his Head and Small of his Back. and of Oppression about the Vital Region. Mol find he has those Complaints galding with ither other acarly hobvious Symptoms above for forth I dacknowledge the Prefence of the Malignant Guest, provided there can be no reasonable Apprehensions of the Small-Pox. My next Enquiry is, eifihaldaspheen Bled; ifinot, Isthenufrebquentlyirbrder one moderate Draught to -belitaken from his Arm or Jugular, propottierfable to the Conftitution and other Girdumftances of the fick Person as has elecent before mentioned on the Subject of Bleeding to But if I mind the has been walbreadynovecodargelyo bled more oftening and officeially if he has been haraffed with an etrotagnid agbuind Coolagismid aboltavindo very Labricous Situation nothe Stomach generally at that Time receiving Medicines with Reluctancy, on with great Aversation rirejecting nithem rback, 12 which -makes sott dexcebdingly bad Hibute a town extort fuch constant and diffluent Sweats as rate emquired: But if, fortunately, nothing at all

14 Of the Malkgrank Fener

all has been done to throw fuch shocking Impediments in the Way hand if the giaps a letter of the graph of the graph of the graph of the best and the proceed in gother and for proceed in gother the best, and so proceed in gother the best, and so proceed in gother the best and so proceed in gother throw some the gother throw some thr

following Manner.

in Forder the fick Person to keep care fully his Feet, Arms, and Shoulders under the Bed-clothes, and his Body to be all over well covered with the Sheet. and a warm Coverlet or Blanket and this I give strictly in Charge to the Nurse who is employed about him, with thefe further Directions, that during the Time of Sweating, the Patient be not fuffered to lie too supine, but with his Body somewhat raised, and his Head more elevated than usual, upon a Pillow that is not over foft or linking; let his Head be covered only with a thin Cap and not kept too warm; it would not be amils if it were shaved too, if such a thing in this Hurry could be readily and conveniently done: When the Sweat is fufficiently over, let him endeavour to fit up as much as he is able, or be now and then supported in such an erect Posture if the Giddiness maich frequently attends all the Stages of this Diftemper will permit; By these Quitions too fort cible an Appulle of Blood may be ward: ed off from the Brain and other Gome and on

Then the best prevented that in the form of the property of the best processive and so processive quality of the best, and so processive quality of the best of the processive quality of the best of the processive quality of the best of the processive quality of the processive

B. Aq. Last. Alexiten. Zv. Theriacal. Ziii.

nu Spizh Lavend. Comp. Ziii. pulvine Ghel.

ad Gancror, comp. Zi b. Lap. Contraverva

be die vel Zb. Syn. de Croco q. s. ut f. fue

be lep., cujus sumat cochl. ii. omni bibonio

al spezhibendo copiose Tham ex foliis Sal
lep. grantentam, vel liquorem posseticum

micum Vino Canariens alteratum, vel de
ber 1965um radicis China.

Sometimes, if the Patient does not readily sweat. I order the following Powder to be given every Four Hours; viz.

Pull Gastonic. gr. kill. Lap. Contraverva B Croc. Angl. and gr. w. Cochinill. gr. vi. a Chimphor. gr. ii. m. f. Puty. pro una don, bnasumend. ex baustulo Vth. Maderens. meii Faltoris tum aromatique calefast. calida ii Juperotoendo ut i prius liquores quovis modentes. en se noun se que wo Judorem modentes. en se noun se que -lo 1 Sen en coun in bestocqui nent bna

The Tent or Posset denk I direct likewise to be bostosten igiven stant act other Times. Vehico Tracke, uMithredate, and the like, at recommended by many Writers of Note on these Occasions, and with Submissions but, it with Submissions.

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on to fuch great Authorities, I apprehend their Opiate Ingredients and Narcotic Qualities are fufficient to forbid the Use of them in this Difeafe, lat least unless a Numbergof finking Stools make liter necessary. When the Eruption of Sweat is by thefe Means continued in a copious and profule Manner for Twenty-four Hours or more, it seldom fails to affwage the Fury of the Fever, gives a fenfible Relief to the Anxiety, and usually prevents or overcomes the great Propentity to Reaching and Vomiting, Jactations, Yellowness, Sickness, Ge. But I generally endeavour to keep up the Sweat or Moisture of the Skin (though in a much more moderate Manner) for two or three Days longer, and a good Diaphorefis during the whole remaining Course; which is easily done by frequent Supplies of the aforefaid Diquors. After the first Day, PI freely allow the Patient thin Chicken Broth as often as he defires it; and I always found it useful and necessary thus to support Nature's Strength, by a Nourishment so safe, smooth, and digeltible, and of fuch ready Affimilation with the Blood; besides, he might possibly fink under those expensive Sweats, if his Forces were not duly fuffained: And for the same Reason too, at this Time, I allow him now and then a Glass of Canary or Madera Wine a little diluted, besides deseneyon

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bender Gruels and Panada's with Who ado deduce them, Sack-whey made niche Prhinds ordinary, and facto Kinds of light refectivil ry Mourt fibrient, which how provenioned of great Emolument and Service milf thered has been the Stook voided for two of three Days, bradmit of a Chilled of New Mith and brown Sugary being applied, particul larly when there is an apparent Uneafiness in the Bowels from the Hardness of the Excrements for by retaining it too longois On this Occasion too, and fometimes upon other cogent Confiderations, fuchings obus Stinate Perfeverance of the Symptoms, former Degree of Womiting fith remaining, con Yellookach nor easily receding, it is cuftomangawithy sie to order a Lenitive Purge and a good Daigh resto dulland duni belivib

remaining Course, which is easily done by Rhyder his esting than an arrival selection of the selection of th

Be Mann. optim. Zi, vel zi S. dividatur in quatuor doses quarum una proprietur agro ex liquore posetico prius describio qualiber bara vel sesquibora, donee in cipiat turbari alvus.

This berning Is repeat ligain mored thanks ones with 1884 Occasion, if no evident Department of the ficiency

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ficiency of Strength and Spirits forbid it. If in the Midst of the Disease, but most peculiarly in its Decline, any Number of loose Stools should suddenly burst away, as is now and then observed, I put a Check to them immediately by the following Cordial Clyster; viz.

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Be Diascord, Ziii, vel iv. Terebinth. Venet.
Zii. Vitell. Ov. No 1. Last. Vaccin. rec.
Ziii. vel iv. m. f. Cl. statim injiciend.
Be per aliquod tempus retinend.

It is of the highest Consequence to supprefs this dangerous supervening Symptom, as foon as poffible; for otherwise, the Body will quickly be reduced to fo low and feeble a Condition, that no Att afterwards can prevent it from falling into cold Sweats, cadaverous Coldness of all the extreme Parts, black bloody Stools and Vomits, and fo into the Arms of Death: And therefore if the Cordial Clyfter (tho' repeated) has not fully obtained the defired End, the Necessity of speedy Relief is fo urgent and important, that it encourages me fometimes to order a light but warm Cordial Anodyne, Tuch as a Dole of Venite-Treacle, or the like, diffolved in a Glass of burnt Wine or even in a Dram of burnt Brandy; which at this great Juncture; and this chily may be repeated again, if it be found fill wanting. As to the accidental Symptom of Bleeding at the Nofe, Lips, Gums, Tongue, or Palate, though vitis apto to alarm the By standers, and frighten the Person himself, vet D have often found it rather to relieve than hurt, provided the Quantity fo loft be not too great or too fudden; for I take this Blood that bursts and forces itself a Passage through the finest Capillaries, to be fo thin, colliquate, and acrid, that it is rather an Happiness that it thus discharges and separates itself from the remaining Mass: Of the great Danger of very large Hamorrhages from these Parts, I have taken Notice before. The Tellowness ('tis true) will sometimes shew itfelf, at least in some Degree, notwithstanding all the Means that have been used to prevent it; But if the Sudorific Method has been opportunely followed, it generally comes on late, if at all, and the Degree of it is to light, that 'tis no more than what Nature herfelf (almost unassisted) scan eafily mafter; or if it should be more heavy or obstinate than what was expected la seasonable Lenitive or two may relieve and remove it It happens very frequently that the Patient has little or no Refreshment of Sleep for some Nights successively in the Beginning of his Illness in but this does in no wife induce me (for Reasons above set forth) to offer an H 2 Anodyne,

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Anodyne, or deter me from pursuing my Method with Exactness and Care: For as foon as the Rage of the Diftemper is, by the Means of Sweat and Diaphorefis, overcome, and the Hurry of Nature fenfibly affwaged, as it seldom fails to be by this Treatment, the Patient himself begins to rest with Comfort and Satisfaction; his Pains then go over, his Spirits begin to be raised, a visible Amendment is felt in every Part, and all the Functions of Life seturn gradually to their natural Order and Constancy, tho' a sensible Weakness must remain for some Time. As soon as the Strength is somewhat repaired, a Lenitive Purge is to be taken, which will compleat the whole Cure, by cleanfing the Body of the Impurities or Feculencies that the putrid Diftemper may have left behind it. This last Purging is so highly necessary, that through the Neglect of it, I have known the Patient some Time after to be fuddenly furprized with a fevere torminous Diarrhaa, attended with Fever and Deliria; and so (though happily still escaping) pay dearly enough for his Folly and Obtinacy. During this whole Course, I keep the fick Person in a Perspiratory Condition; but as foon as the just Season of Sweating is past, I then (besides the Directions before given in Charge) order fome Part of his Covering to be removed, and the Room by

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by Degrees to be made formewhat more cool; for which End, I choose for him Mf possible a large Chamber, and not exposed to the hot Beams of the Afternoon's Sun; and I allow some Air to pass through yet without suffering it to blow upon the Bed; for I have seen the Admission of too much (particularly upon a Body uncovered and almost naked, as Patients often choose to se in this hot Climate) attended with the worst Consequences: In very hot Weather it may be requisite, about the Meridian Hours, to sprinkle the Floor with Rose water and Vinegar.

will must now earnestly desire due Notice may be taken, that though the Method I we may be faid to be Alexipbarmac, wet it is by no means hot, parching, or inflaming; and that this Moisture or Sweat I vendeavour to extrude, is rather to be attributed to the Quantity of Tepid Diluents, as Sage-tea, Sack-whey, &c. than to the real Heat of the Medicines themselves And I have often thought, that in Malignant Fevers the Alexipharmac Practice has sometimes been brought into Difreputation either by the Physician's over-doing through too abundant Zeal for it, or by using it anat an improper Season, or for want of Advertence to the great Necessity of copious Diluters : And perhaps this other Reafon may be properly enough assigned for the

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the present great Disuse of this Practice amongst most Physicians. In the ordinary Intercurrent Fevers, where the Blood is for the most part Viscous and Pleuritical, the forcible extorting of early Sweat is found evidently to be hurtful, as the hot Cardiac Regimen, which is used for that Purpose, only adds fresh Fuel to the Flame, and often brings on Coma's, Phrenfies, and other dangerous Symptoms, instead of throwing off the Materia Febrilis, which is not yet concocted or duly prepared for Expulsion. The ignorant common People indeed are of themselves too apt, upon every flight Indisposition, to swallow down a Dose of Venice-Treacle or Mitbridate. and fo procure (as they imagine) a cheap Sweat, which no doubt proves fatal to many. It may not be improper to mention here, that the great Observator Doctor Sydenbam first attempted to cure the Pestilential Fever by Bleeding, and imagined for fome Time, that he had fufficient Success in this Way; but he afterwards thought fit to change this Method for the Alexipharmac, and had the Integrity to own that it proved the more fuccessful # inas it refy in my Opinion concerning this Fe-

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Methods

Quin & Febris Pestilentialis causa, cum tenuisima sit, & perquam subtilis, vel in primis morbi diebus, sudoribus disflari potest, suffragante ubique experientia.

Sypann. Do Feb. cont. Aux. 1673.

certainly was the most reasonable; the peccant Particles being in this Case so thing fubtil, and fugacious, as to be able to pass nimbly away through the Pores along with the Sweat. However, Lought to observe, that the Administrations which were so wisely contrived, and succeeded so happily in that Pestilential Fever in England, would not quadrate exactly with ours of Barbados; for though they have in many Points a near Resemblance to one another, yet there is this effential Difference between them, that the Blood in the former is described to be Pleuritical or Rheumatical, but in this latter it is exceeding. ly loofe thin, and free from Size And therefore, I apprehend, for Reasons already mentioned, that the Opiate Quality of Sydenbam's Sudorific, and the Strength and Largeness of his Purgative Potion, would really be of mischievous Consequence in the Fever I am describing; so that the the chief Indications are the fame in both. yet the practical Instruments must be somewhat different worthall satt synador of the

ind must acknowledge, that I was formerly missed by the prevailing popular Herefy in my Opinion concerning this Fever, and I treated it for some Time accordingly; until meer practical Observation (the only true Guide) had convinced me of the Faithkinek and Infecurity of that

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Method.

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Method, and obliged me to make a closer and leverer Scruting, by examining every Symptom; inatural or accidental, with more ferious Attention than what I found had been done to my Hands, and by comparing or balancing the Mischiefe and Benefits of the common Administrations, Itill watching Nature's own Biass and the Indications the fuggested: Upon which I foon found of imagined I had found very justifiable Grounds for altering my Practice in the Manner here described. But I can folemnly declare, that (befides the Suffrage of Reason, which seems to plead strongly on my Side) I have fince had the faithful Testimony of many Years Experience. Notwithstanding, I dare not alledge, that this Way will absolutely never fail of Succels; for it is eafily perceivable, that the Diftemper itself is of the most dangerous Kind, and a small Inadvertency in the Practitioner, or Error in the Patient, amay prove equally destructive, as it often happens even in Difenses of Inferior Note: But Dean fafely promife, that this Method, under the Management of a prudent Conductor, will always be found much the best and surest of any that have been yet intermpted if gives if

I have already pretty folly explained myself, how (when the true Scalon of employing this Method has been left for overlook'd too long) the Use of Lentive russingd.

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Purges, under due Cautions and Restrictions, must be called in; and therefore I refer now to what has been said before on the

Subject of Purgatives annuan A suchial som

But nothing furely could be more beneficial to the Poor (among whom common Sailors, who are the greatest Sufferers, have a Right to be included) than to devise fome Remedy of easy Purchase and ready Use, which might be at hand upon all Occasions; for the Suddenness of their Seizure, and the urgent Necessity of speedy Affistance, for the most part give very little Time to wait for officinal Compofitions. In fuch Cases I imagine, that giving immediately, upon the first Invafion of the Symptoms, a good Dose of warm * Snake-root-wine, then covering the Body well in Bed, and provoking plentiful Sweats for the Space of a Day and Night, by large and frequent Draughts of Sage-Tea, or any other Sudorific Liquids, might be greatly ferviceable, and contribute not a little to overlay the Disease in its Infangy. 19 I own I have never yet tried it myself, having generally found other Medicines in Readiness enough, and likewise through Fear, that if a copious Sweat

have already pretty faily explained ho

Purges, ...

NB Since the awriting of the above, this has been tried with very good Success.

66 Of the MALIGNANT FEVER

should not quickly flow, the great Warmth of such a Draught should augment the Fever, and usher in the whole Train of its dismal Attendants. However, the Practice appears to me reasonable; it has been sometimes advantageous even in the more common Feverish Cases, and I leave it to be determined by future Experience.

Nor can I at present undertake to write my Sentiments definitively in regard to the Use of the Peruvian Bark, in the Declenfion of this Fever. The Cortex is certainly of known Efficacy in preventing Difpolitions to Mortification, and in Ropping its further Progress when actually begun, as well as in fortifying a weak Tone of Blood; and therefore it is probable, that when the Heat begins to abate, and the Pulse is lowered, this might be the proper Time for administring it, either in Tincture, Infusion, or Decoction: But I declare I could never yet meet a fair and safe Opportunity of offering it, the Stomach being on these Occasions generally so tender and delicate, and fo apt to be thrown into Irritations by fuch an harth unpalatable Drug, that I have not dared to venture upon it. Norwithflanding the Use of it is highly commended by those who have frequented the Guinea Coaft, where they are often attacked by ill-natured and irregular Fevers, that are perhaps fui generis,

neris, and peculiar to that unhealthy Marroon Country. This Disease may possibly be changed into an Intermittent after large Evacuations, if the Patient happen luckily not to die under them, before this Scene can be brought about, which good Fortune is much to be doubted, and I am sure he would be very unwise that should depend upon such a dubious Chance: But should the Matter really prove so, the Service of the Bark is then self-evident.

It should have been observed before, that the apparent Danger of catching the Infection by diffecting the Bodies of the Dead, joined with the intolerable Stench, that almost immediately issues from them, gives such a general Impression of Fear and Horror, that we have hitherto wanted the Advantage of the many Lights that might be obtained by fuch Examinations. But I am credibly informed by an ingenious young Gentleman, Surgeon to one of His Majesty's Ships, that he ventured to open the Body of one who died of this Illness under his Hands; upon which (tho' the Operation was hasty, and consequently his Enquiry not over curious) he found the Stomach, Diaphragm, and many of the adjacent Parts, feized with a deep Mortification. Helmont, speaking of the Plague itself, has these Words, " Plerum-" que notavi Pestem circa stomachum prima " fedinert

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"Wife observed a Pestilential Anthrax in the Stomach."

Stomach:

The History of this Difease requires, that a Description should be given of the Seafons and Weather, and their successive Alterations, in order to shew how far they might have had an Influence in producing the Epidemical Contagion. Hippocrates gives Authority and Rules for doing this; and indeed the frequent Neglect of it, is the only fair Objection or Imputation that can be justly laid to the Charge of the accurate and judicious Sydenham. But as I am fully convinced, that the present Malignity does not owe its Birth to any different Temperatures of our Atmosphere, nor to any Vapours or Exhalations from the Surface or Bowels of our little Spot of Earth (however it might have been fince nourished or supported by any such Means) I need only make this general Observation: From the Beginning of this last Introduction of the Peftilential Fever among us (which happened in the Winter Season of the Year 1733, as was hinted before) the Weather, and the Air in respect of its primary Qualities of Heat, Cold, Drought, and Moisture, suffered no other signal Variations, than what were usual here in the healthiest Times; we had alternately dry and rainy Seafons, each continuing often for

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for some Months successively, but the dry did certainly prevail most; no Hurricane has been felt (I mean in this Island) during that whole Space; we enjoy almost the Year round constant refreshing Breezes of the Trade-Wind, which only varies a little between the East and North Points, except that in the Months of July and August (which we call the Hurricane Months) and fometimes later, the Wind frequently blows from the South or West, or the Points between them; nor has there been the least Appearance of any uncommon Meteors in the Sky from that Time to this: What the hidden Influxes of Calestial Bodies may have done, we are not Capable of knowing to learning T

During the Tyranny of this Fever, common Sporadic Diftempers appeared now and then as usual, such as Angina's, Peripneumonies, Astbma's, Pleurifies, Rheumatisms, Galds, Coughs, Diarrhæa's, Dysenteries, &c. | which however were not to general as to deserve the Name of Epidemics, nor did feem to have any Relation and the predominant Constitution of the Year; but (as it mostly happens in these Parts) shewed themselves chiefly upon the fetting in of rainy Weather, of which they feemed to be in fome Measure the immediate Offspring; though, no doubt, the foregoing Droughts might have disposed the

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the Body and Humours for their Production; the Heats and Droughts bracing the Fibres and occasioning an Inflammatory Diathelis in the Blood, and the Rains giving Rife to Viscosities of the Humours. Stoppage of Perspiration, and Relaxation of the Fibres. In almost all these, the Blood, when drawn, had an Inflammatory Crust resembling that of Pleuritical or Rheumatical Cases, and exceedingly different from what is constantly observed in the Fever now spoken of; as has already been shewn. As to the Intermittent Tribe, either Autumnal Quartans, or Vernal Tertians and Quotidians, it is certain they are rarely (if ever) the genuine Growth of Barbados, let the Weather vary ever fo much: Indeed Continued Fevers do fometimes here, as in Europe, upon their going off put on the Genius of Intermittents, and Patients labouring under Agues are often brought up here from other Parts: But it is notorious, that all the uninhabited Islands, which are not many Leagues distant from us, and lie still covered with thick Woods, as Tabago, Saint Lucy, Saint Vincent, Dominique, Esci are subject to them in a very eminent Degree, for Reasons too obvious to be now related, which both King's Ships and Traders are fensible of to their Cost, if they only remain a Fortnight or Three Weeks in thefe Harbours: Harbours; and these are frequently obsisnate and irregular, often refembling double Tertians, though with due Preparation and Precautions they submit, at length, to the Use of the Bark. The Freedom we enjoy in this Place from fuch importunate Vifiters I take to be chiefly owing to the great Purity and Freshness of our Air: But yet there are other Caufes of it too that well deferve Notice; for, 1st, All the different Stages of the Year are scarce distinguishable from one another by the Heat of the Day. except that in the Winter (if Winter it may be called) the Evenings and Mornings are fenfibly cooler: 2dly, Our Rainy Seafons are mostly in the Summer Months of June, July, and August, and the Moisture that then falls is foon fucked up again both by the hot Beams of the Sun, which is at that Time almost perpendicular in its Meridian Height, and by the Panning of our conftant Breezes: And, 3dly, our Autumns and Winters are generally tempered with the drieft Weather, fo that there is hardly any Opportunity for Intermittents to erect vered with think Woods, as Labert neith

How it may be in the Leeward Colonies I cannot precisely fag, but it is to be prefumed, that Antique, St. Kitts, Nevit, Montferat, &c. (as they are now well cultivated) perceive no very effential Differences any Way, and for that Reason I suspect, that their

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their MATIGNANT EEVER is much the fame as ours, and that it was derived to them from this or some other Place, but is by no means the natural Produce of their own Climate, though it is reported to have been much more fatal there than here: Whether their Air or Earth may have any peculiar Properties, more apt to encourage, or more agreeable to the Nature of fuch an Infection, is utterly a Mystery to me. I likewise do much suspect, that the Opinion which has lately prevailed there, of the Distemper's being originally occafioned by some corrupted Ponds, is not very just; for in such Case, they would scarce ever be free from it, the same Cause ever fublishing in all long Courses of dry and hot Weather; belides, they are bleffed with the fame Winds and fresh Breezes as we are, by which the Vapours are perpetually blown away from off the Face of fuch narrow Tracts of Lands, and cannot poffibly stagnate over such Ponds, so as to fill the Air with Infectious Miasmata of the most horrible and most venomous Sorte Were their Grounds still overspread with Woods, or remarkably covered with unwholesome Lakes or Marshes, something might be faid in Favour of fuch an Opinion: But, Lam persuaded, had exact Enquiries been made upon the first Appearance of this Difease among them, it would have 100

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been found to have proceeded from forme

other Quarter.

In this Space of Time there arose here a few other Difeases, that were really Epifew escaping them in Families where they had once got a Footing. The first was an obstinate and ill-favour'd Erysipelatous Quinfey. The fecond, a very Anomalous Scarlet Fever, in which almost all the Skin, even of the Hands and Feet peeled off. The third, a Suffocating Cough, that in the Year 1737, and Part of 1738, spread itself over all Parts of the Island, and was sometimes Convultive in Children and young People, upon whom it exerted its Anger most. The fourth, the Small-Pox, which has continued longer than ever it was known to do before, and is not yet quite departed from us. Of these I need not give any particular Description at present; but there is great Room to apprehend, that their spreading so far and wide, was in some measure influenced and forwarded by the Constitution now reigning, and that some of them were Creatures of it.

It is no unjustifiable Boldness to affert, that within these last fix Years, or thereabouts, His Majesty has lost, by means of this Malignity, in and about his Sugar-Colonies, upwards of Twenty Thousand very useful Subjects, the much greatest Part

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of whom were Sea-faring People, which abundantly shews the Necessity of making the most faithful and diligent Searches into the Causes, Nature, and Cure of this dire Distemper. Some honest and fair Attempts towards the obtaining a more perfect Knowledge of it are now offered, which possibly may not be unacceptable to any who have the Preservation of their Fellow-Citizens at Heart; especially, as Endeavours of this fort are highly wanted, and have been un-

I have, I think (without omitting any thing material) given a brief Account of this reigning Conflitution; in doing which, I have rather studied Weight of Matter than Elegancy of Stile, and Usefulness rather than Ornaments: I have endeavoured to make my Reasons plain and obviously intelligible, and the Inferences easy and natural: I have avoided using Technical Words, or Terms of Art, as much as the Nature of the Subject would bear, or the Significancy of the Sense required; and I have been shy of embellishing my Remarks with Quotations (as might readily have been done) out of the learned Languages, which indeed would only shew Oftentation, and could be of very little Service to those, for whose Use this Treatife is principally defigned. very uteful bubledts, The marking

doll have on fond Pretence of obtruding my Opinions illor any dother View but to explain and enforce my own Observations which I have Ground to believe are founds ed upon Truth and Matters of Fact, and which I hope will prove of Advantage to many, when more generally known and brought into Practice. For Apology, I beg Leave to use the Words of a Great Man already mentioned; Illam tantum mibi veniam peto, quod minus accurate, quam proposueram, morbi historiam ac curationem descripseno; cum non tam metam figam. quam animos iis addam, qui feliciori ingenio præditi ad boc opus postea se accingent, quod jam ego imperfecte molionist evad I than Elegancy of Stile, and Ufefulnefs rather than Ornaments: I have endeavoured to make my Reafons plain and obvioully intelligible, and the Interences eafy and natural; I have avoided ufing Technical Words, or ferms of Air, as much as the Nature of the Subject would bear, or the Significancy of the Senie required; and I have been thy of embellithing my Remarks with Quotations on the readily have been done) out the which indeed would be of ve could be of ve for whose atife is principally deligned.

SAROGABLARA